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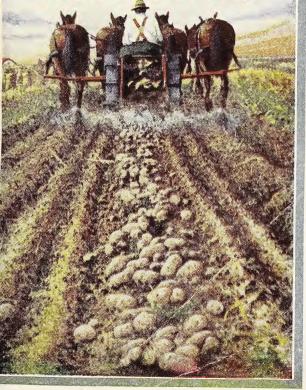




SEMESAN BEL

Instantaneous Dip

POTATOES





Small scale treatment with Du Bay Semesan Bel

No Longer Need Diseases Steal

Your Potato Profits

THE potato is probably more subject to disease than any other one of America's crops. It is estimated that at least 50 per cent of all seed potatoes planted in this country carry disease in some form or other.

Such prevalence of disease on seed pieces can have but the natural result of causing tremendous losses in yield and heavy depreciation of the market value of a large portion of the crop produced.

The loss in yield alone caused by potato diseases is equivalent to one out of every five or six acres planted. Frequently this loss represents the profit on your entire planting.

Treat Certified Seed Also

Even the use of certified seed does not insure against disease. Dr. Wm. H. Martin, Plant Pathologist, New Jersey Experiment Station, says in the February, 1928, issue of the American Produce Grower, "Some growers base their argument against seed treatment on the grounds that since they purchase certified seed it should be unnecessary to disinfect it before planting. An examination of the certification requirements of any State will show that this argument is not sound as there is no State that does not permit at least 10 per cent of scab and Rhizoctonia.... On the other hand, while scab and Rhizoctonia and black leg exist as a menace to the crop, they can be prevented by seed disinfection."

The cost of seed treatment is small compared to the cost of other operations entering into profitable potato growing, yet the failure to treat your seed before planting frequently represents the difference between a profitable and an unprofitable crop.



Small scale reputation with Du Bay Spinesin Bul

No Longer Need Diseases Steal

Your Potato Profits

Talle putato is probably more subject to disease than any Taller one of America's crops. It is estimated that at least 30 per centur all seed putators planted in this country carry disease in some form or other.

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Just Dip Your Potatoes—and Plant

Instantaneous Dip Treatment with Semesan Bel Requires No Soaking—No Expensive Equipment— No Extra Labor

THE disagreeable task of disinfecting seed putatoes by premay of the old-fushinned, time-consuming soak treatments can now be climinated.

Just dip your seed potatoes in Semesan Bel instantuneous dip—and glant. Designed specifically to formish an easy, rapid and simple method of seed potato disinfection, Samesan Bel requires no embersome or special equipment, an hot water and no tedious soaking. This new treatment may be curried out at glanting time by enters and wagonmen—no extra or skilled labor is necessary.

Growers have formal by practical experience that the Semesian Bel dip method is so rapid that one man above corressily treat from 2004o 400 bushels of politices per day.

Labor saving considered, Semeson Bel often costs less than all-fushioned methods and it brings to the putato graver a quick, practical, and effective method of seed disinfection.

Effective in Disease Control

Semesan Bel "dip" dries quickly on the seed, forming a thin coating of disinfectant that cannot easily be rubbed all by handling and planting. Surface-borne organisms of Rhizoctonia, seah and black leg are asmily destroyed. The attacks of certain soil-infesting organisms are aften prevented by the coating of disinfectant which remains on the seed niece throughout the season.

No seed treatment can be expected to protect the new crop from infections by soil turns such or Rhizochams.

By clausing the surface of the seed piece and protecting it from decay until the plant is well started Semesian Bel generally helps to improve the stand and vigor of the plants—thus making them more capable of producing larger yields and clemer, more marketable crops.

Harmless to Spronted Seed

Semesan Bel, when applied neconling to directions, usually thes not injure whole or cut seed. Even sprouted seed may be trented with Semesan Bel with little danger of injury, while the old-fashioned treatments (corrosive sublimate and formaldehyde) often injure both the sprouts and seed, return germination and consequently reduce the stand and yield.

A Pound Treats 16 to 22 Bushels of Seed

Semesan Bel mixes rendily with cold water and the trenting mixture retains its antiscptic strength to the last drap.

One pound of Semesan Bel will make to quarts of dip which will treat approximately 22 hushels of whole or large seed pieces and about 16 hushels of small or cut seed.

Full directions are packed in every container.



Ordinary equipment around the frem may be used for Semeson Bel treatments



Enthusiastic Reports from Successful Growers Demonstrate Simplicity and Profitable Benefits of SEMESAN BEL INSTANTANEOUS Potato Dip

Rate of untreated polatoes groven by J. O. Eslinger in Idaho

THE lack of a practical method of seed treatment has long been a weak sput in efficient putatu graning. Methods of planting, digging, entitivating, spraying and fertilizing have been steadily improved. But until resently little, if any, progress has been made in the development of more practical and satisfactory methods of freating seed potulius.

With the development of the Semeson Bel instructure dip there is now available to the poloto grower a new, rapid and effective putato disinfectant which eliminates many of the disorderantiges of old-fashioned methods.

Comments from some of the users of Semeson Bel give evidence at the general satisfaction this near putata disin-fectant has produced under practical growing conditions.

Growers Like Ease of Application

W. J. Kennedy, of Colorado, writes: "I am much impressed with the case, economy and simplicity of Semesan Bel treatments. With other methads, the average farmer is not equipped to bouille them properly and they require so much more time and labor."

Better Results with Semesan Bel

A Maine grower, A. S. Lildip, reports that he: "Used Semesin Bel in competition with corrosive sublimate and abtuined S to 40 horrels (22 to 28 bushels) per larger aure yield from the Semesian Bel treated seed."

Usnally Promotes Better Sprouting

Semesan Bel trented seed putatues usually spront more uniformly than natrealed ones. For example, C. H. hissermann, of Idaha, a large producer at high-grade seed, says: "My Semesan Bel treated seed germinated quickly and uniformly and gave me a perfect stand."

Helps Produce Better Stands

Experience has shown that Semesan Bel treatments generally result in sturby sprants and excellent stands. For example, F. W. Piric, of New Brunswick, Canada, says: " . . . we treated over 1000 barrels of ent seed, 700 burrels of which were Government Certified Red Bliss Trumph grown from our own plats. The plants showed a wanderful stant all through the process of growin.'

Disease Control Means Better Quality

Semesan Bel, as many growers have found, generally produces pointers of better quality due to its control of certain discusses which blem-ish the tubers and reduce their market value.

The Amis Brus, Company, of Texas, state that the best seed they were able to purchase was so infected with seab and Rhizactania that was so injected utilised build Ruzzetama that they hesituted to plant, but finally decided to treat about 1000 lumbels of this seed. They reported: "The plants grew up rigorously, producing above average and showed no sent or Rhizoctonia. The whole deal showed us a nice

profit and we believe lind the Semesan Bel treatment not been applied we would have fuced a loss."



Nutice the great improvement in stand and rigor of gravels of the Sounson Hel treated plants empared with untreated mes. Genen in North Dakota, by O. O. Brandun



Semesan Bel increased yields of No. 1 patataes over currentine sublimate treated seed by 9.3 barrels per acre, for A. II. Christic & Son of Maine)

Earlier Maturity Is a Frequent Advantage

Highly profitulte results were obtained from early maturity by W. M. Raper, North Carolina, who says: "My Semesan Bel treated potatoes matural 5 days earlier, giving

me the advantage of a much higher market that netted on an increased profit of \$1125, which is exactly what Semeson Bel was worth to me this year.

Generally Increases Yields

From all sections of the country, we have enthusiastic reports of increased yields. Typical of these is one received from A. H. Christie & Son, of Maine, who write: "At digging time, the same number of Semesan Bel treated rows yielded 5 barrels per acre more than the nul reated rows and 7 burrels more than the corrusive freated rows. The potatoes from the Semesan Bel treated rows also graded Ω_{co}^{1} harrels more No. 1 stock than those from the corrosive sub-limite treated part of the crap."

W. H. Gordnn, of Texas, " plot, in spite of deficient rainfall throughout the

Accarding to Elmer Osking, The Dean-Osking Campany, at North Dakota, "Semesan Bel lins anything heat that we have ever tried for treat-

mnything heat that we tarre ever tried for treatment by at least 15 to 20 per cent."

Carl E. Randalph, of Maine, writes: "....

I harvested the Semesan Bel treated and untreated potatics and faund that the Semesan Bel treated patatoes yielded 71.8 barrels cumpared with 50.4 harvels no mattendad, an increase of the barrels are note." of 21.4 harrels per nere.

Usually Benefits Sweet Potatoes

Somesan Bel is frequently effective in con-trolling such common infections of sweet pota-toes as surface-horne black rot and scurf or

corner bored soil stain.

"We had good results the hist two sensous on our sweet polato beds," reports the J. E. Hoopes Company, large loura grouvers, while from Dehauare cours the statement of J. E. Duitun & Sun that: "The treated sprouts showed great improvement over the mitrated seed, the roots being clean and free of disease. There was an increased yield from the Semesan Bel treated sprouts and the potatoes were bright, clean and disease-free."

Do Not Plant Internally Diseased Seed

Seed potatoes infected internally with rots caused by such organisms as Fusarinm are unfit for planting and

Other Uses for Semesan Bel

Semissia Bel is recommended also for the disinfection of such thower roots as dablias and iris.

Complete Directions Are Packed in



A big yield of putators from Semesan Bel treated seed on Reed Brothers Seed Farm in Maine

Convincing Proof from Experts

N reporting his results of three-year tests with IN reporting his results of three-peur tests with organic mercuries, such as Semesan Bel, at the 1927 Annual Meeting of the Potata Association of America, Dr. William H. Martin, of the New Jersey Agricultural Experiment Station, said; "All of the treatments (on Green Mountain seed) gave an increase arror the matrealed cheeks, these increases amounting to from 4.7 to 45.4 bushels per nere... It should be noted that all of the organic mercury treatments gave yields as good or better than the treatments gave yields as good or better than the mercuric chluride treatment.

"The organic mercury compounds (Diphust and its successor, Semesan Bel)... again gure control of seab equal in or better than that resulting from the use of the standard 1½-hour treatment in mercuric charide."

In an artigle contributed to the February, 1928, issue al *The Southern Planter*, A. B. Bryan, of Cleurson College, South Carolina, wrate:

"Even the hest Irish putate seed obtainable from Northern seed producers by Santhern farmers unity he infected with Rhizactonia, a seed-horne fungous disease, far the certification rules do not prohibit shipment of seco su infected. Hence a new remedy, Bayer's Dipdust treatment (nantunde-moned Du Bay Semesan Bel), tested in Santh Curolina's poluto area. Semisan Bell, tested in Sunti Cirolina's politicarea in 1927 and found very effective, should be a relecond companion to the well-kinnen corrosive sublimate treatment, especially since it is somewhat simpler and more efficient and, though more expensive, still insignificant in cost when the increased yield is considered.

Evidence from County Agents

POTATOES treated with Semeson Bel (formerly Dipulast) gave an increased yard or 121/6 bushels per acre over those not treated," says C. A. Johnson, a county agent, of Georgia, who continues: "Grades were not measured, but it was very evident that there was a much smaller proportion of little pota-toes coming from the Irealed plats than from the untrented area. Results obtained were sufficient and convincing enough to endurse it and recommend

From Journ comes the report of Cuunty Agent Paul A, Johnson, who writes: "Putations triuled with Semesair Bel (formerly Dipdust) were just as clear as thuse treated with hot formablehyde. It is easy to trent the secil. The yield from Olio send Ireated with Semesain Bel was 251 bushels per acre, whereas the same seed intreated yielded only 214 bushels per acre, showing an increase of 37 bushels, or 17.3 per cent in farm of the freatment.

'When tested on Cohblers, Semesan Bel treated seed produced 166 bushels per acre, while only 78.3 bushels per acre trere obtained from universel-seed of the same lot, resulting in an increase of SS bushels, or about 113 per cent."



Somesan Bel increased the yield on the Texas farm of W. H. Gordon by 19.2 linshibs per acre, or 25.4 per cour, and also increased the firsts by 28.3 per cent

Why You Should Use -

SEMESAN BEL

for Treating Seed Potatoes

- It is easily and quickly applied by the instantaneous dip method, eliminating the need of special equipment, extra labor and loss of time in soaking.
- It often helps to produce larger crops of marketable potatoes at a lower cost per bushel.
- It generally controls such destructive seed-borne diseases as scab, Rhizoctonia and black leg.
- It is less likely to injure sprouted seed than the older treatments which usually destroy the sprouts and thus retard germination.
- It generally protects the seed piece against certain soil-borne organisms during the sprouting period.
- It frequently promotes more uniform germination of seed pieces and often improves the stand and the vigor of the plants.
- Its cost is small compared to profits derived from its use.

Du Bay Semesan Bel is the successor to the seed potato disinfectants formerly sold under the trade names "Du Pont Semesan Bel" and "Bayer Dipdust."



Increase at the rate of 21 barrels per acre due to Semesan Bel treatment, on the Maine farm of C. E. Randolph



SEED DISINFECTANTS

SEMESAN BEL

An Instantaneous Dip Disi	nfectant for Seed Potatoes.
4-oz. tin\$.50	25-lb. pail \$ 31.25
1-lb. tin 1.75	100-lb. drum 120.00
5-lb. tin 8.00	300-lb. drum 345.00

CERESAN

A Dust Disinfectant for Wheat, Oats, Barley and Certain Other Cereals.

8-oz.	tin	\$.50	25-lb. pail \$	12.50
1-lb.	tin	75	100-lb. drum	49.00
5-lb.	tin	3.00	300-lb. drum	144.00

SEMESAN

A General Disinfectant for Many Vegetable and Flower Seeds or Bulbs, and Certain Plant Diseases.

2-oz.	tin\$.50	25-lb. pail \$ 56.25
1-lb.	tin	2.75	100-lb. drum 220.00
5-lb.	tin 1	13.00	300-lb. drum 645.00

SEMESAN JR.

A Dust Disinfectant for Seed Corn.

4-oz. tin\$.50	25-lb. pail \$ 31.25
1-lb. tin 1.75	100-lb. drum 120.00
5-lb, tin 8.00	300-lb, drum. 345.00

Du Bay Seed Disinfectants are poisonous and owing to present Postal Regulations cannot be sent through the mails but must be sent by express or freight.

BAYER-SEMESAN COMPANY, INC.

105 Hudson Street

New York, N. Y.

for Sale by

